Learning to Fly: The Wright Brother's Adventure			
2006 Science			
Content and Achievement Standards			
North Dakota Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
The Society	ND	SCI.6.6.2.2	Select alternative methods of scientific investigations (e.g., library, internet, field work) to address different kinds of questions.
The Society	ND	SCI.6.6.8.1	Identify various settings in which scientists may work alone or in a team (e.g., industries, laboratories, field work)
Wright Brothers: 1900 Glider	ND	SCI.6.6.6.2	Design a product or solution to a problem given constraints (e.g., limits of time, costs, materials and environmental factors)
Wright Brothers: 1900 Glider	ND	SCI.6.6.8.1	Identify various settings in which scientists may work alone or in a team (e.g., industries, laboratories, field work)
Wright Brothers: 1901 Glider	ND	SCI.6.6.6.2	Design a product or solution to a problem given constraints (e.g., limits of time, costs, materials and environmental factors)
Wright Brothers: 1901 Glider	ND	SCI.6.6.8.1	Identify various settings in which scientists may work alone or in a team (e.g., industries, laboratories, field work)
Wright Brothers: 1902 Glider	ND	SCI.6.6.6.2	Design a product or solution to a problem given constraints (e.g., limits of time, costs, materials and environmental factors)
Wright Brothers: 1902 Glider	ND	SCI.6.6.8.1	Identify various settings in which scientists may work alone or in a team (e.g., industries, laboratories, field work)
Wright Brothers: 1903 Flyer	ND	SCI.6.6.6.2	Design a product or solution to a problem given constraints (e.g., limits of time, costs, materials and environmental factors)
Wright Brothers: 1903 Flyer	ND	SCI.6.6.8.1	Identify various settings in which scientists may work alone or in a team (e.g., industries, laboratories, field work)
Meet the Wrights	ND	SCI.6.6.5.1	Identify adverse weather conditions and how humans prepare for them
Meet the Wrights	ND	SCI.6.6.8.1	Identify various settings in which scientists may work alone or in a team (e.g., industries, laboratories, field work)
1900: Kitty Hawks	ND	SCI.6.6.6.2	Design a product or solution to a problem given constraints (e.g., limits of time, costs, materials and environmental factors)
1900: Kitty Hawks	ND	SCI.6.6.8.1	Identify various settings in which scientists may work alone or in a team (e.g., industries, laboratories, field work)
1901: The First Improvement	ND	SCI.6.6.8.1	Identify various settings in which scientists may work alone or in a team (e.g., industries, laboratories, field work)

New Data	ND	SCI.6.6.2.1	Explain the components of a scientific investigation (e.g., hypothesis, observation, data collection, data interpretation, communication of results, replicable)
New Data	ND	SCI.6.6.5.1	Identify adverse weather conditions and how humans prepare for them
1902: Success at Last	ND	SCI.6.6.6.2	Design a product or solution to a problem given constraints (e.g., limits of time, costs, materials and environmental factors)
1903: Powered Flight	ND	SCI.6.6.6.2	Design a product or solution to a problem given constraints (e.g., limits of time, costs, materials and environmental factors)
1904: Improvement in Dayton	ND	SCI.6.6.2.1	Explain the components of a scientific investigation (e.g., hypothesis, observation, data collection, data interpretation, communication of results, replicable)
1904: Improvement in Dayton	ND	SCI.6.6.3.2	Use simple machines to change forces
1905: Complete a Flight at Last	ND	SCI.6.6.6.2	Design a product or solution to a problem given constraints (e.g., limits of time, costs, materials and environmental factors)
1905: Complete a Flight at Last	ND	SCI.6.6.8.1	Identify various settings in which scientists may work alone or in a team (e.g., industries, laboratories, field work)
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North Dakota Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Wright Brothers: 1900 Glider	ND	SCI.7.7.2.1	Communicate the results of scientific investigations using an appropriate format (e.g., journals, lab reports, diagrams, presentations, discussions)
Wright Brothers: 1901 Glider	ND	SCI.7.7.2.1	Communicate the results of scientific investigations using an appropriate format (e.g., journals, lab reports, diagrams, presentations, discussions)
Wright Brothers: 1902 Glider	ND	SCI.7.7.2.1	Communicate the results of scientific investigations using an appropriate format (e.g., journals, lab reports, diagrams, presentations, discussions)
Wright Brothers: 1903 Flyer	ND	SCI.7.7.2.1	Communicate the results of scientific investigations using an appropriate format (e.g., journals, lab reports, diagrams, presentations, discussions)
Meet the Wrights	ND	SCI.7.7.2.1	Communicate the results of scientific investigations using an appropriate format (e.g., journals, lab reports, diagrams, presentations, discussions)

1900: Kitty Hawks	ND	SCI.7.7.2.1	Communicate the results of scientific investigations using an appropriate format (e.g., journals, lab reports, diagrams, presentations, discussions)
1901: The First Improvement	ND	SCI.7.7.1.1	Explain how models can be used to illustrate scientific principles (e.g., osmosis, cell division)
1902: Success at Last	ND	SCI.7.7.1.1	Explain how models can be used to illustrate scientific principles (e.g., osmosis, cell division)
1903: Powered Flight	ND	SCI.7.7.1.1	Explain how models can be used to illustrate scientific principles (e.g., osmosis, cell division)
1904: Improvement in Dayton	ND	SCI.7.7.2.1	Communicate the results of scientific investigations using an appropriate format (e.g., journals, lab reports, diagrams, presentations, discussions)
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North Dakota Science			
Grade 8			
Activity/Lesson	**State**	**Standards**	
1901: The First Improvement	ND	SCI.8.8.2.2	Use evidence to generate descriptions, explanations, predictions, and models
1901: The First Improvement	ND	SCI.8.8.2.4	Design and conduct a scientific investigation (e.g., making systematic observations, making accurate measurements, identifying and controlling variables)
1901: The First Improvement	ND	SCI.8.8.3.3	Interpret the effect of balanced and unbalanced forces on the motion of an object (e.g., convection currents, orbital motion, tides)
1901: The First Improvement	ND	SCI.8.8.5.1	Explain how factors (i.e., fronts, winds, air masses, air pressure, humidity, temperature, location) affect weather
New Data	ND	SCI.8.8.5.1	Explain how factors (i.e., fronts, winds, air masses, air pressure, humidity, temperature, location) affect weather
1902: Success at Last	ND	SCI.8.8.2.2	Use evidence to generate descriptions, explanations, predictions, and models
1903: Powered Flight	ND	SCI.8.8.2.2	Use evidence to generate descriptions, explanations, predictions, and models
1904: Improvement in Dayton	ND	SCI.8.8.5.1	Explain how factors (i.e., fronts, winds, air masses, air pressure, humidity, temperature, location) affect weather
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Content and Achievement Standards			

North Dakota Science			
Grades 9-10			
Activity/Lesson	**State**	**Standards**	
The Society	ND	SCI.9-10.9-10.2.3	Identify questions and concepts that guide scientific investigations
The Society	ND	SCI.9-10.9-10.8.1	Identify the role of scientists in theoretical and applied science (e.g., careers, employment possibilities)
The Society	ND	SCI.9-10.9-10.8.2	Identify the human characteristics that influence scientific advancement (e.g., intellectual honesty, openness, objectivity, curiosity, skepticism, ethical conduct, cooperation)
The Society	ND	SCI.9-10.9-10.8.3	Explain how individuals and groups, from different disciplines in and outside of science, contribute to science at different levels of complexity
Wright Brothers: 1900 Glider	ND	SCI.9-10.9-10.8.1	Identify the role of scientists in theoretical and applied science (e.g., careers, employment possibilities)
1901: The First Improvement	ND	SCI.9-10.9-10.1.1	Explain how models can be used to illustrate scientific principles
1901: The First Improvement	ND	SCI.9-10.9-10.2.5	Identify the independent and dependent variables, the control, and the constants when conducting an experiment
1903: Powered Flight	ND	SCI.9-10.9-10.2.8	Analyze data found in tables, charts, and graphs to formulate conclusions